

CLAIMS:

1. A disk drive, comprising:
  - a first read or write head,
  - a first positioning mechanism for the first head,
  - a first spindle motor for rotating a disk having a recording surface,
  - a first microprocessor for controlling the operation of the first head, first positioning mechanism, first spindle motor, and communication with a host device,
  - a second read or write head,
  - a second positioning mechanism for the second head,
  - a second spindle motor for rotating a disk having a recording surface,
  - a second microprocessor for controlling the operation of the second head, second positioning mechanism, second spindle motor, and communication with a host device, and
  - a single electronic interface connection which transfers communications to and from the host device and both the first and second microprocessor.
2. A disk drive, comprising:
  - a first read or write head,
  - a first positioning mechanism for the first head,
  - a first spindle motor for rotating a disk having a recording surface,
  - a first microprocessor for controlling the operation of the first head, first positioning mechanism, first spindle motor, and communication with a host device,
  - a second read or write head,
  - a second positioning mechanism for the second head,

a second spindle motor for rotating a disk having a recording surface,  
a second microprocessor for controlling the operation of the second head, second positioning mechanism, second spindle motor, and communication with a host device, and  
a single electronic power connection which transfers electronic power from the host device to both the first and second microprocessor.

3. A disk drive, comprising:  
a first read or write head,  
a first positioning mechanism for the first head,  
a first spindle motor for rotating a disk having a recording surface,  
a first microprocessor for controlling the operation of the first head, first positioning mechanism, first spindle motor, and communication with a host device,  
a second read or write head,  
a second positioning mechanism for the second head,  
a second spindle motor for rotating a disk having a recording surface,  
a second microprocessor for controlling the operation of the second head, second positioning mechanism, second spindle motor, and communication with a host device, and  
a single printed circuit board which provides electrical interconnecting circuitry between a host device electronic interface and both the first and second microprocessors

4. A disk drive, comprising:  
a first read or write head,  
a first positioning mechanism for the first head,  
a first spindle motor for rotating a disk having a recording surface,

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a first microprocessor for controlling the operation of the first head, first positioning mechanism, first spindle motor, and communication with a host device,

a second read or write head,

a second positioning mechanism for the second head,

a second spindle motor for rotating a disk having a recording surface,

a second microprocessor for controlling the operation of the second head, second positioning mechanism, second spindle motor, and communication with a host device, and

a single mounting means for attaching the drive chassis to the host device chassis.